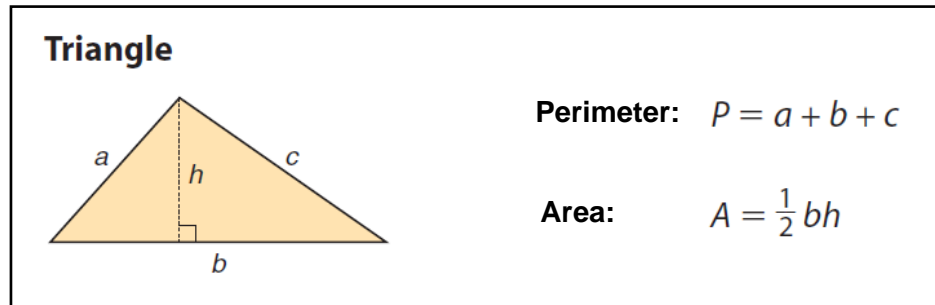
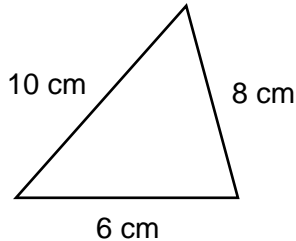


Worksheet 1-11: Perimeter and Area of a Triangle

1. Determine the perimeter of each given triangle.

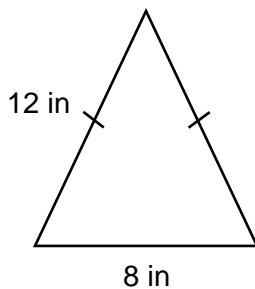
(a)



$$\begin{aligned} \text{Perimeter} &= a + b + c \\ &= 10 + 6 + 8 \\ &= 24 \end{aligned}$$

The perimeter is 24 cm.

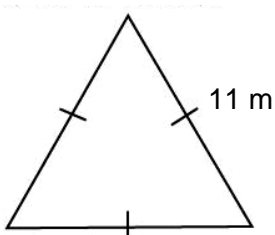
(b)



$$\begin{aligned} \text{Perimeter} &= a + b + c \\ &= 12 + 8 + 12 \\ &= 32 \end{aligned}$$

The perimeter is 32 in.

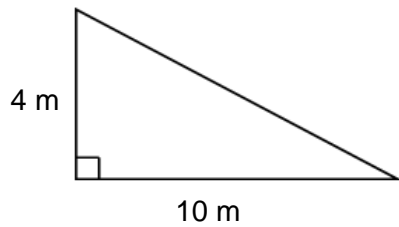
(c)



2. Determine the area of each given triangle.

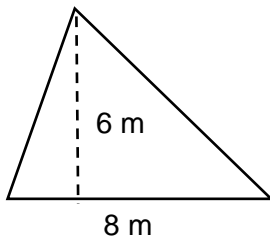
Note: Height, h , is a vertical line perpendicular to the base of a triangle.

(a)



$$\begin{aligned} \text{Area} &= \frac{bh}{2} \\ &= \frac{(10)(4)}{2} \\ &= \frac{40}{2} \\ &= 20 \end{aligned}$$

(b)



$$\begin{aligned} \text{Area} &= \frac{bh}{2} \\ &= \frac{(8)(6)}{2} \\ &= \frac{48}{2} \\ &= 24 \end{aligned}$$

The area is 24 m².

3. Determine the area and perimeter of the given triangle.

